

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN THE MATTER OF THE PCT NATIONAL PHASE PATENT APPLICATION

OF: Martin ROGALLA et al.

USSN: TO BE ASSIGNED - NEW

FILED: January 4, 2005

USPS EXPRESS MAIL

EV 511 024 735 US

JANUARY 04 2005

FOR: Device and Method for Fastening  
Balancing Weights to Rotors, In  
Particular to Propeller Shafts  
or Cardan Shafts

INTERNATIONAL SERIAL NO.: PCT/DE2003/002180

INTERNATIONAL FILING DATE: 01 July 2003 (01.07.2003)

MS PCT  
COMMISSIONER FOR PATENTS  
P. O. BOX 1450  
ALEXANDRIA, VA 22313-1450

January 4, 2005

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

- 1) Pursuant to 37 C.F.R. 1.56, 1.97 and 1.98 applicants enclose a Form PTO-1449 and make of record the documents listed thereon. A copy of the English Version of the International Search Report issued in the counterpart PCT International Application on November 5, 2003 is enclosed. Copies of references AC, AE, AH and AK are enclosed. English Abstracts for references AD, and AF to AK are enclosed.
- 2) Copies of references AD, AF, AG, AI, AJ and AL are not (and need not be) enclosed, because they were transmitted to the USPTO by

the International Searching Authority in the International processing of this PCT Application.

- 3) This statement is being filed concurrently with the above identified new PCT National Phase Application.
- 4) References AA and AB are in English. References AD and AF to AK are accompanied by English Abstracts. Reference AH corresponds to AA, and reference AK corresponds to AB, from which the relevance can be determined in English. Reference AJ has been discussed at page 1 of the specification. Therefore, no further discussion of these references is required.
- 5) Reference AC (DE 1 573 763) discloses an arrangement for balancing the crankshafts of motors. The arrangement includes a measuring device for detecting the unbalance and milling machines for milling the crankshaft counterweights for removing material to correct the unbalance. The crankshafts are movable forwards while lying on the feed advance path with their axes perpendicular to the feed advance direction. The unbalance correction is achieved only by boring or milling of the end counterweights in a machining direction parallel to the axis of the crankshaft. For each counterweight, two tools are provided in such an arrangement that the machining processes can be carried out in two axial directions oriented perpendicularly to one another, in order to carry out the material removal at the circumference of the counterweight.

- 6) Reference AE (DE 30 11 824) discloses a balancing weight for balancing a cardan shaft, and a method for welding the balancing weight onto the cardan shaft. The balancing weight comprises a curved plate that is to be welded onto the cardan shaft and that has a concave radius of curvature approximately corresponding to the radius of the cardan shaft. Several projections or protrusions are provided on the contact surface of the balancing weight, and are embodied as claw-like extensions that are up to about three times as long as the thickness of the plate. The claw-like extensions can be formed by bending corners of a rectangular or quadratic plate by about 90°. The method for welding such a balancing weight consisting of a light metal onto a light metal pipe of a cardan shaft involves receiving the balancing weight in a semicircular or prismatic shaped electrode and then pressing the claw-like extensions of the balancing weight against the surface of the light metal pipe, and then further moving the balancing weight and the pipe relative to one another while constantly pressing them together and then carrying out the welding process. The relative motion of the balancing weight and the pipe of the cardan shaft ensures that the contacting surfaces are scraped or rubbed clean, so that the welding process can then be carried out rapidly and without problems. The relative motion can be completely or partially around the circumference of the metal pipe or in the longitudinal axial direction.
- 7) Moreover, the enclosed Search Report indicates the degree of relevance of references AD, AF, AG, AI, AJ and AL by category

(A = technological background, general state of art; and  
Y = relevant to obviousness in connection with another  
publication). Thereby, a concise explanation of the relevance of  
the foreign language references has been provided (see M.P.E.P.  
§609).


- 8) Applicants respectfully request that the Examiner consider all  
references of record, return an initialled copy of the enclosed  
Form PTO-1449, and ensure that all references of record are  
printed on any patent issuing from this application.

Respectfully submitted,

Martin ROGALLA et al.  
Applicant

WFF:ar/4811/PCT  
Encls.: postcard,  
Form PTO-1449,  
copy of Int. Search Report,  
7 English Abstracts,  
4 references

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**Sheet 1 of**  
**FIRST IDS LIST OF REFERENCES**  
**CITED BY APPLICANT**

**DATED: January 4, 2005**

Atty. Docket No.  
4811

Serial No. 3,520,390  
to be assigned

Applicant: Martin ROGALLA et al.

U.S. Filing Date:  
January 4, 2005

Art Unit:

**U. S. PATENT DOCUMENTS**

*EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	Cl.	Sub- Cl.	Fil. Date
	AA	4,803,882	02/1989	Schonfeld et al.	-	-	-
	AB	6,539,852	04/2003	Ertl	-	-	-

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NO.	DATE	COUNTRY	Cl.	Sub- Cl.	Trans.	
							Yes	No
	AC	1 573 763	03/1971	Fed. Rep. of Germany	-	-		x
	AD	56-012529	02/1981	Japan	-	-	Abst	
	AE	30 11 824	10/1981	Fed. Rep. of Germany	-	-		x
	AF	57-023834	02/1982	Japan	-	-	Abst	
	AG	61-209780	09/1986	Japan	-	-	Abst	
	AH	36 38 158	05/1988	Fed. Rep. of Germany	-	-	=AA +Abst	
	AI	06-241936	09/1994	Japan	-	-	Abst	
	AJ	44 40 812	05/1996	Fed. Rep. of Germany	-	-	Abst	
	AK	1 124 123	08/2001	Europe	-	-	=AB +Abst	
	AL	1 573 678	02/1971	Fed. Rep. of Germany	-	-		x

**OTHER DOCUMENTS**

<b>EXAMINER</b>	<b>DATE CONSIDERED</b>	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.